

Indian Institute of Technology Kanpur
Department of Chemistry

Enquiry No.: CHM/AS/005

Enquiry Date: 22/4/2015

Closing Date: 29/6/2015



Quotations are invited for “Rotary vane Pump” (1 Nos.)

Technical Specifications for Rotary Vane Pump

1. General Specifications:

- Two Stage Rotary Vane Vacuum Pump Suitable for Pumping Chemical Gases and Vapors
- All contact parts to be made of suitable Fluorinated Polymers or Plasma Treated Metals
- Gas Ballast (GB) Valve for pumping condensable vapours
- In built Anti Oil Suck Back Valve
- Vacuum Isolation Valve with Chemical Resistant Wetted parts

2. Technical Data:

- Number of Stages 2
- Max. Pumping Speed @ 50 Hz ISO 21360 5.7 m³/hr
- Ultimate Partial Vacuum (abs.) 4 X 10⁻⁴ mbar
- Ultimate Vacuum (abs.) without GB 2 X 10⁻³ mbar
- Ultimate Vacuum (abs.) with GB 1 X 10⁻² mbar
- Water Vapor Tolerance with GB 40 mbar
- Oil Capacity min / max 340 / 730 ml
- Inlet Connection Small Flange KF DN 16
- Outlet Connection Hose Nozzle DN 8 – 10
- Rated Motor Power 230 V 50-60 Hz 0.3 kW
- Rated Motor Speed 50 – 60 Hz 1500 – 1800 rpm
- Degree of Protection IP 40
- Approximate Weight 20 kgs
- Sound ISO 2151 and ISO 3744 50 dBA

3. Material of Construction – Wetted Parts for Chemical Resistance

- Wetted Metal Parts - Aluminium Alloy, Stainless Steel, Grey Cast Iron, Steel Partly Plasma Nitrated, Nickel plated, zined
- Wetted Plastic Parts - Epoxy Resin, FPM - Fluor elastomer, NBR – Nitrile Butadiene
- Rubber, PBT – Poly Butylene Terephthalate, PEEK – Poly Ethyl Ether Ketone, PPS– Polyphenylene Sulphide Glass Fibre Reinforced.
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4. Maintenance Kit should be provided along with 5 ltrs of rotary vane pump oil.

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5. Terms and Conditions:

1. Prices should clearly mention whether delivery is to IITK or CIF, New Delhi including packing and forwarding, insurance and freight.
 2. Prices should include transportation, installation and maintenance for 2 year, which includes all manufacturing flaws.
 3. If item is imported then firm should quote the price on F. O. B. basis, by pick up by our world wide transport provider
 4. Minimum 2-year warranty from the date of installation.
 5. Quoted price should be valid at least for 90 days.
 6. Maximum educational discount.
 7. Other specification according to the above technical requirements including commercial bids.
 8. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions with out assigning any reason is reserved.
- Kindly mention “Rotary vane vacuum pump” on sealed envelope-carrying quotation, literature and send your best offer so as to reach us on before 29th April, 2014 to the following address.

Dr. Anand Singh

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